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SAN JOSE, CA 95131			2419	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Application No. Applicant(s) 10/538,569 RIJPKEMA, EDWIN Office Action Summary Examiner Art Unit DANIEL MITCHELL 2419 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 15 June 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1,121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

| Attachment(s) | Attachment(s

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DETAILED ACTION

Finality Vacated

This Final Action is in response to the Applicant's response filed on November 4, 2008.

The finality of the Final Office Action mailed on September 23, 2008 is vacated for failure to properly cite the prior art reference of Hellwig (US Patent No. 6,931,020 B1).

This subsequent Final Office Action will be issued in its place.

Response to Arguments

Arguments of Claims 1-19: Modification of the Kilkki reference does not render the prior art invention unsatisfactory on the grounds that data from fig. 9 ports 1 and 2 could contend for element 118. Although Kilkki is applying congestion control (col. 6 lines 33-36 a cell buffer is determined to manage discarding the packets and accepting a certain priority level of packets), Kilkki does not teach the event of two or more packets contending for the same port. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Kilkki to include a single contention resolution process for physical and virtual ports of a switch. One would be motivated as such in order ensure high speed transmission of a switch - Hellwig col. 5 lines 66-67 and col. 6 lines 1-2. Therefore placing the ports in the Kilkki reference under one contention resolution process would not render the prior art reference of Kilkki unsatisfactory.

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Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-10, 12-14, 16, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kilkki et al. (U.S. Patent No. 6,411,617 B1), hereinafter referred as Kilkki in view of Hellwig (U.S. Patent No. 6,931,020), hereinafter referred as Hellwig.

Regarding claim 1, Kilkki disclose a communication network fig. 8

(element 110, 112, and 114 teaches an ATM network) comprising one or more interconnected data switches (element 112-ATM switch and element 110 - ATM extender teaches interconnected data switches), each of the interconnected data switches having I/O ports (elements 116, 117 and elements 122, 123 teaches I/O ports and at least one virtual port (elements 118 and 120 teaches virtual ports).

However Kilkki does not expressly disclose characterized in that the communication network configured and arranged to subject said I/0 ports

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and said at least one virtual port to one contention resolution process common to the I/O ports and the at least one virtual port.

Hellwig discloses in **fig. 4 and col. 5 lines 49-67** virtual ports between the interface ports and the resource, and the physical ports with the switching matrix with a single contention resolution module connected to all ports.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Kilkki to include a single contention resolution process for physical and virtual ports of a switch. One would be motivated as such in order ensure high speed transmission within a switch - Hellwig col. 5 lines66-67 and col. 6 lines 1-2.

Regarding claim 2, Kilkki discloses (fig. 8 element 120 teaches virtual input ports and element 118 teaches virtual output ports) at least one virtual port is a virtual input port or a virtual output port. Col. 13 lines 23-41 teach elements 118 and 120 are dedicated ports, which are virtual ports, for an external resource.

Regarding claim 3, see similar rejection as claim 2.

Regarding claim 4, Kilkki discloses (col. 13 lines 43-55 teaches that a virtual port has an identifier) wherein the at least one virtual port is an addressable virtual port.

Regarding claim 5, Kilkki discloses fig. 8 wherein the at least one virtual port element 118 and 120 is coupled to at least one resource element 110. Also lines 23-41 teaches that SIMA extender resource element 110 is coupled to the ATM switch element 112 by virtual ports.

Regarding claim 6, Kilkki discloses **fig. 8** wherein the at least one resource **element 110** (teaches that the resource is external to ATM switch 112) is an external resource.

Regarding claim 7, Kilkki discloses (col. 13 lines 23-26 teaches the external resource element 110 has the function of configuring ATM cells to SIMA principles), wherein the at least one resource comprises means for configuring.

Regarding claim 8, Kilkki discloses (fig. 8 elements 110 and 112 teaches the association of the two elements and col. 13 lines 23-41 teaches the external resource is associated with the ATM switch), wherein the at least one resource are means for one of the associated data switches.

Regarding claim 9, see similar rejection as claim 1.

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Regarding claim 10, see similar rejection as claim 1.

Regarding claim 12, Kilkki discloses **fig. 8** wherein the at least one virtual port **elements 118** and **120** (teaches a virtual port) is an external port and the at least one virtual port is coupled to an external resource **element 110** SIMA extender (teaches and external resource that is couple to element 112 ATM Switch) that performs a function associated to the data switch, the function **col. 13** lines **23-41** (teaches that data is multiplexed for the ATM Switch) configuring of the data switch.

Regarding claim 13, Kilkki discloses (col. 13 lines 43-55 teaches that a virtual port has an identifier) wherein the at least one virtual port is an addressable virtual port.

Regarding claim 14, Kilkki teaches a data switch as to the parent claim.

However Kilkki does not expressly disclose wherein the one contention resolution process treats contention at the at least one virtual port as contention on one of the I/O ports.

Hellwig discloses in **fig. 4 and lines 49-67** both physical and virtual ports.

He also discloses one contention resolution module to address the contention resolution at all ports.

See similar motivation as claim 1.

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Regarding claim 16, see similar rejection as claim14.

Regarding claim 18, see similar rejection as claim 14.

 Claims 11, 15, 17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kilkki and Hellwig in further view of Cisneros (U.S. Patent No. 5.157.654) hereinafter referred as Cisneros.

Regarding claim 11, Kilkki and Hellwig teach the data switch as to the parent claim. However Kilkki does not expressly disclose further comprising an internal resource that performs a function associated to the data switch, the function including at least one of testing, debugging, programming and configuring of the data switch, wherein the at least one virtual port is an internal port and the at least one virtual port is coupled to the internal resource.

Cisneros discloses col. 12 lines 56-68 an internal switch control module which performs essential control, test and administration of a switch through a dedicated interface which is coupled to the switch port.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Kilkki to include solving contention at an output port. One would be motivated as such in order execute

fast contention resolution in a switch architecture that is compact col. 8 lines 65-68.

Regarding claim 15, Kilkki discloses a data switch as to the parent claim. However Kilkki does not expressly disclose wherein the one contention resolution process resolves contention resulting from an output port of the I/O ports being addressed by two or more input ports of the I/O ports and the one contention resolution process resolves contention resulting from the at least one virtual port being addressed by two or more input ports of the I/O ports.

Hellwig discloses in **fig. 4 and lines 49-67** both physical and virtual ports.

He also discloses one contention resolution module to address the contention resolution at all ports.

Cisneros discloses in col. 14 lines 5-11, a contention resolution unit that solves contention when two inputs address a single output port.

See similar motivation as claim 11.

Regarding claim 17, see similar rejection as claim 15.

Regarding claim 19, see similar rejection as claim15.

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Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL MITCHELL whose telephone number is (571)270-5307. The examiner can normally be reached on Monday - Friday 8:00 am - 5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shah G. Chirag can be reached on 571-272-3144. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. M./ Examiner, Art Unit 2419

/Chirag G Shah/ Supervisory Patent Examiner, Art Unit 2419